Data

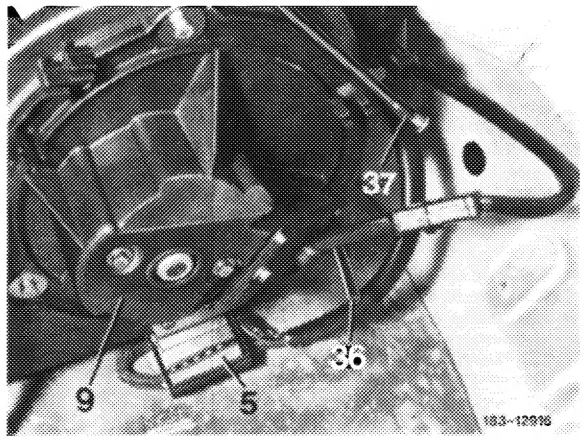
Adjustment on temperature dial	Medium head room temperature in °C (°F)
65	18 ± 2 (64)*
75	24 ± 2 (75)
85	30 ± 2 (86)

*may not be attained at high ambient temperatures.

If the medium head room temperatures are not attained or if they are too low or too high, set system to colder or warmer by turning temperature dial on potentiometer shaft held in place by means of adjusting wrench (83–611).

If an adequate control quality is nevertheless not attained, also check venting of in-car temperature sensor.

1 If the tester is still connected to system, pinch off system while plugging 10-point plug connection (5) again together and close vacuum line (37) with blind plug (83–602).

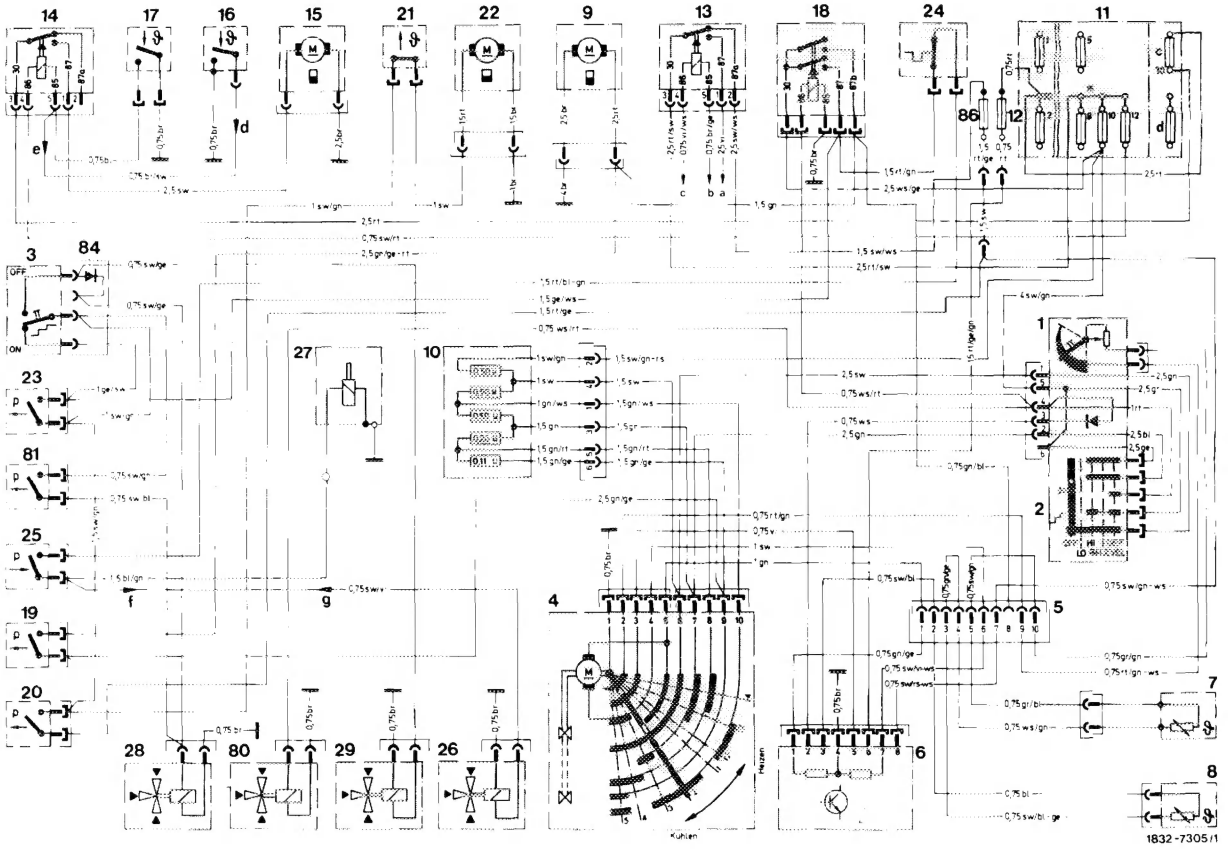


Layout of 10-point plug connection for tester

5 10-point plug connection for tester
9 Blower
36 Vent line for legroom flaps
37 Vacuum connection for tester

2 Attach one thermometer each adjacent to head of driver and co-driver (front passenger) and approx. 200 mm away from vehicle head lining.

Note: Below 16 °C (61 °F) ambient temperature the heating water pump (22), controlled via switch (20) and (21), should run along.



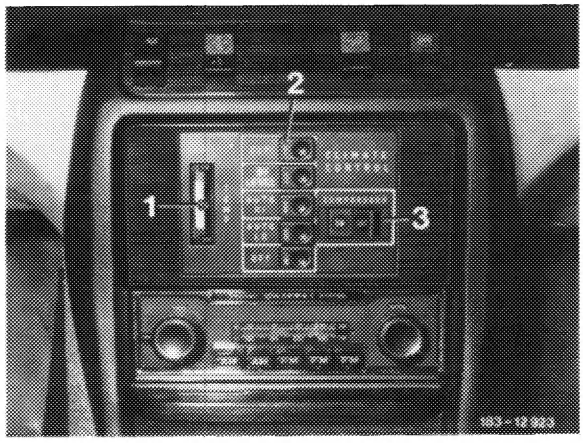
Electric wiring diagram, ignition off, regulating valve in position "parking" (standard)

1 Temperature dial
2 Pushbutton switch
3 "ON/OFF" switch refrigerant compressor
4 Regulating valve
5 10-point plug connection for tester
6 Amplifier
7 In-car temperature sensor
8 Ambient temperature sensor
9 Blower
10 Pre-resistance for blower
11 Main fuse box
Fuse 10 : 16 amps
Fuse 12 : 8 amps
Fuse c : 16 amps
12 Additional fuse for amplifier (2 amps)
13 Relay air conditioning system
14 Relay auxiliary fan
15 Auxiliary fan
16 Temperature switch 100 °C (212 °F) in thermostat housing for auxiliary fan
17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan
18 Double contact relay
19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)
20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF
22 Heating water pump
23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
24 ETR-switch 2 °C (36 °F)
25 Pressure switch refrigerant compressor
ON 2.6 bar gauge pressure (2.6 atü)
OFF 2.0 bar gauge pressure (2.0 atü)
26 Switchover valve for constant speed (engine 110.984 only)
27 Electromagnetic clutch for refrigerant compressor
28 Switchover valve for vacuum element of legroom flaps
29 Switchover valve for vacuum element of fresh air-recirculated air flap
80 Switchover valve "BI-LEVEL" (at "DEF")
81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
84 Diode
86 Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier
a Cable connector starter terminal 50
b Starter lockout and back-up lamp switch
c Ignition starter switch terminal 50
d Via relay ignition switchover terminal 85 } engine
e Via relay decoupling terminal 30 } 110.984 only
f Via relay ignition switchover terminal 87a } (countries with
g Via relay ignition switchover terminal 30 } emission control)

3 In selector lever position "D" maintain a road speed of 30 to 40 mph (50 to 60 km/h) (ambient temperature sensor air flow).

4 Set pushbutton switch (2) to "AUTO-HI".

5 Read headroom temperatures after approx. 5 to 10 minutes (refer to table, 608/1).



Layout of control unit

1 Temperature dial
2 Pushbutton switch
3 "ON/OFF" switch of refrigerant compressor